NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offi-Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.go

## NOTICE OF ALLOWANCE AND FEE(S) DUE

6147 7590 06/29/2010 GENERAL ELECTRIC COMPANY GLOBAL RESEARCH ONE RESEARCH CIRCLE BLDG, KI-3A59

NISKAYUNA, NY 12309

IMAGING PURPOSES

EXAMINER					
CHENG, JACQUELINE					
ART UNIT	PAPER NUMBER				
3768	•				
DATE MAILED: 06/29/2010					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,318	11/25/2003	Murtuza Lokhandwalla	135858	9461

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/29/2010

TITLE OF INVENTION: COMPRESSION PADDLE MEMBRANE AND TENSIONING APPARATUS FOR COMPRESSING TISSUE FOR MEDICAL

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed officients.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a						tould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
GENERAL EL GLOBAL RESE ONE RESEARC	'H CIRCLE				I ber	Cert	ificate	of Mailing or Transı	
BLDG. K1-3A59 NISKAYUNA, N				[					(Depositor's name)
111311111 01111,1	11 12305								(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/723,318	11/25/2003			Murtuza Lokhandwa	Ila			135858	9461
TITLE OF INVENTION IMAGING PURPOSES	: COMPRESSION PAI	DDLE 1	MEMBRANE AN	D TENSIONING APP	PAR	ATUS FOR COM	PRESS	ING TISSUE FOR M	EDICAL
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0	\$0 \$1810		09/29/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS	$\neg$				
CHENG, JAC	CHENG, JACQUELINE		3768	600-427000	_				
☐ "Fee Address" indi PTO/SB/47; Rev 03-0: Number is required.  3. ASSIGNEE NAME AT PLEASE NOTE: Unit recordation as set fort!  (A) NAME OF ASSIG	ess an assignee is ident n in 37 CFR 3.11. Com GNEE	" Indica ed. Use A TO B ified be	ation form e of a Customer E PRINTED ON 1 clow, no assignce of this form is NO	data will appear on th I a substitute for filing (B) RESIDENCE: (C	nativ ingle or a attor I be p r typ re pa an a	ely, firm (having as a gent) and the name news or agents. If i orinted.  e) tent. If an assigne assignment, and STATE OR C	members of up no nam	entified below, the do	ocument has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):		Individual 🔲 Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				o. Payment of Fee(s): (I  A check is enclose  Payment by credit  The Director is her overpayment, to D	ed. care	I. Form PTO-2038 authorized to chan	is atta	ched. equired fee(s), any def	
	SMALL ENTITY state	ıs. See	37 CFR 1.27.					TTY status. Sec 37 CF	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	from anyone other the Office.	an th	e applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name					Registration No.				
This collection of informs an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V. Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sl D NOT	11. The informatic 122 and 37 CFR O. Time will vary nould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection is depending upon the it e Chief Information Ol COMPLETED FORM	or re s esti ndivi ffice S TC	etain a benefit by the mated to take 12 m dual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment: Fradem . SENI	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa O TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



NISKAYUNA, NY 12309

# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/723,318	11/25/2003		Murtuza Lokhandwalla	135858	9461			
6147	7590	06/29/2010		EXAMINER				
GENERAL ELECTRIC COMPANY				CHENG, JACQUELINE				
GLOBAL RES				ART UNIT	PAPER NUMBER			
ONE RESEARCH CIRCLE				3768				
BLDG. K1-3A	59		DATE MAILED: 06/29/2010					

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 571 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 571 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Application No. Applicant(s) 10/723 318 LOKHANDWALLA ET AL. Notice of Allowability Examiner Art Unit JACQUELINE CHENG 3768 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 5/25/10. The allowed claim(s) is/are 1,3,4,6-14 and 18. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. T Examiner's Statement of Reasons for Allowance of Biological Material Other .

Application/Control Number: 10/723,318 Page 2

Art Unit: 3768

#### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jennifer Haeckl (Reg. No 41,812) on June 16, 2010.

The application has been amended as follows:

 Apparatus for compressing tissue on a support during a medical imaging process to generate a medical image, said apparatus comprising:

a tissue compression membrane configured to compress the tissue between the membrane and the support during the medical imaging process and configured to minimize image distortion in the medical image;

a support frame configured to support at least one end of said compression membrane; and

a plurality of tensioning apparatuses coupled to said membrane to apply a tensile force to said membrane to place said membrane in a taut condition during the medical imaging process;

wherein said tensioning apparatuses each comprises an inflatable bladder.

(Canceled)

Deleted: that compresses

Deleted: minimizes

Application/Control Number: 10/723,318 Page 3

Art Unit: 3768

 The apparatus of claim \(\plus \) wherein said support frame further supports said tensioning apparatus. Deleted: 2

4. The apparatus of claim  $\frac{1}{2k}$  wherein said tensioning apparatus comprises at least one tensioning device situated on one side of the frame, and configured to

Deleted: 2

 Apparatus for compressing tissue on a support during a medical imaging process to generate a medical image, the apparatus comprising:

apply tensile force along an axis perpendicular to said frame side,

Deleted: that compresses

Deleted minimizes

a tissue compression membrane <u>configured to compress</u> the tissue between the membrane and the support during the medical imaging process and <u>configured</u> to minimize image distortion in the medical image;

a support frame configured to support at least one end of said compression membrane; and

a plurality of tensioning apparatuses coupled to the membrane to apply a tensile force to the membrane to place the membrane in a taut condition during the medical imaging process;

> **Deleted:** wherein the tensioning apparatuses each comprises an inflatable

Deleted: means

Deleted: for applying

wherein the tensioning apparatuses cach comprises an inflatable bladder, configured to apply a respective tensile force to the compression membrane along a pair of mutually orthogonal axes that define a plane at least over a portion of the compression membrane; and Art Unit: 3768

wherein applying the tensile force along the orthogonal axes includes means for independently adjusting the magnitude of the tensile force along each of the orthogonal axes, thus allowing to compensate for variation in size and/or shape of the tissue to be compressed.

- 18. Medical imaging equipment for imaging tissue comprising: apparatus for compressing the tissue during a medical imaging process to generate a medical image, the apparatus comprising:
  - a tissue compression membrane <u>configured to minimize</u> image distortion in the medical image;

a support frame configured to support at least one end of said compression membrane; and

a plurality of tensioning apparatuses coupled to the membrane to apply a tensile force to the membrane to place the membrane in a taut condition during an imaging process;

wherein each of the tensioning apparatus comprises an inflatable bladder responsive to one of the following commands for applying the tensile force: a hydraulic command and a pneumatic command;

wherein at least one of the tensioning apparatus comprises at least two tensioning devices arranged on the support frame to apply a respective tensile force to the compression membrane along a pair of mutually orthogonal axes; and Deleted: the means for

Deleted: that minimizes

Deleted: a

Application/Control Number: 10/723,318 Page 5

Art Unit: 3768

wherein each of the tensioning devices includes a respective tension adjuster for independently adjusting the magnitude of the tensile force along each of the orthogonal axes, thus allowing to compensate for variation in size and/or shape of the tissue to be compressed.

19. (Canceled)

(Canceled)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACQUELINE CHENG whose telephone number is (571)272-5596. The examiner can normally be reached on M-F 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Art Unit; 3768

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacqueline Cheng/ Examiner, Art Unit 3768

/Long V Le/ Supervisory Patent Examiner, Art Unit 3768